

**METHODS AND APPARATUS FOR USE IN COMMUNICATING VOICE AND
HIGH SPEED DATA IN A WIRELESS COMMUNICATION SYSTEM**

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ABSTRACT OF THE DISCLOSURE

10 A fixed wireless system (FWS) utilizing Orthogonal Frequency Division
Multiplexing (OFDM) communication techniques is spectrally efficient and responsive
to communications involving both voice and high speed data, such as Internet data.
The FWS includes a wireless base unit; a plurality of fixed wireless remote units; a
plurality of wireless data traffic channels available between the wireless base unit and
the plurality of fixed wireless remote units; and a plurality of wireless voice traffic
channels available between the wireless base unit and the plurality of fixed wireless
remote units. Each wireless traffic channel is identifiable by a unique combination of
frequency and time slots. Each wireless data traffic channel is used for carrying high
speed data in addressed data packets to and from the plurality of fixed wireless remote
units. On the other hand, each wireless voice traffic channel can be assigned and
dedicated to a particular voice communication call involving one of the plurality of
20 fixed wireless remote units for carrying voice data of the call.